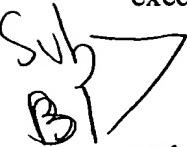


1. (Once Amended) A method of linking a set of code modules for execution, comprising:
determining one or more code modules to be executed, wherein the one or more code modules are one or more DLLs;
ascertaining a hierarchical order in which the one or more code modules are to be executed;

loading the one or more code modules to be executed; and
building a chain connecting the one or more code modules such that the one or more code modules will automatically execute in the hierarchical order when a first one of the one or more code modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain, wherein an address in memory at which the next one of the code modules in the chain is loaded is associated with the reference to the next one of the code modules in the chain.
2. The method as recited in claim 1, wherein building a chain enables the one or more code modules to execute without requiring a parent code module responsible for calling the one or more code modules.
3. The method as recited in claim 1, wherein the loading step is performed simultaneous with the building step.
4. The method as recited in claim 1, wherein building a chain is performed such that the one or more code modules can be modified without requiring recompilation of the one or more code modules.
5. The method as recited in claim 1, wherein loading the one or more code modules is performed in a reverse order of the hierarchical order.
6. (Once Amended) The method as recited in claim 1, wherein determining one or more code modules to be executed comprises determining one or more code modules to be executed to complete configuration of a hardware interface of a router.

7. (Once Amended) The method as recited in claim 1, wherein determining one or more code modules to be executed comprises determining one or more code modules to be executed to configure a [hardware device] router.

10. (Once Amended) The method as recited in claim 1, wherein building a chain connecting the one or more code modules comprises:

obtaining a first one of the one or more code modules, wherein the first one of the one or more code modules has previously been loaded;

determining whether the first one of the one or more code modules is to subsequently execute a second one of the one or more code modules upon completion of execution of the first one of the one or more code modules, wherein the second one of the one or more code modules has previously been loaded;

when it is determined that the first one of the one or more code modules is to subsequently execute a second one of the one or more code modules, updating a branch table [associated with] of the first one of the one or more code modules to identify an [entry point] address at which [of] the second one of the one or more code modules is loaded such that the reference to the second one of the one or more code modules in the branch table of the first one of the one or more code modules is associated with the address at which the second one of the one or more code modules is loaded.

11. (Once Amended) The method as recited in claim 1, wherein building a chain connecting the one or more code modules comprises:

obtaining a first one of the one or more code modules;

determining whether the first one of the one or more code modules has an option of executing a second one of the one or more code modules upon completion of execution of the first one of the one or more code modules;

when it is determined that the first one of the one or more code modules has an option of executing a second one of the one or more code modules, updating a branch table [associated with] in the first one of the one or more code modules to identify an [entry point]

address at which [of] the second one of the one or more code modules is loaded such that the address of the second one of the one or more code modules is associated with the reference to the second one of the one or more code modules.

12. (Once Amended) The method as recited in claim 1, wherein building a chain connecting the one or more code modules comprises:

obtaining a first one of the one or more code modules;

determining whether the first one of the one or more code modules can subsequently execute a second one of the one or more code modules upon completion of execution of the first one of the one or more code modules;

when it is determined that the first one of the one or more code modules can subsequently execute a second one of the one or more code modules, updating a branch table [associated with] in the first one of the one or more code modules to identify an [entry point] address at which [of] the second one of the one or more code modules has been loaded such that the address of the second one of the one or more code modules is associated with the reference to the second one of the one or more code modules.

13. (Once Amended) The method as recited in claim 12, wherein the branch table [is included in] of the first one of the one or more code modules includes the reference to the second one of the one or more code modules prior to loading the code modules and includes the address of the second one of the one or more code modules after the code modules have been loaded.

14. (Once Amended) The method as recited in claim 12, wherein updating a branch table includes [creating] modifying an entry in the branch table such that a dummy address is replaced with [that identifies an entry point] the address of the second one of the one or more code modules.

15. (Once Amended) The method as recited in claim 12, wherein when the first one of the one or more code modules is shared by two or more executable chains of code modules, associating the second one of the one or more code modules with one of the two or more executable chains such that the branch table of the first one of the one or more code modules includes at least two entries, each of the entries identifying one of the two or more

executable chains, each of the entries including an address.

16. (Once Amended) The method as recited in claim 15, wherein the second one of the one or more code modules is associated with one of the two or more executable chains when a parameter is associated with one of the two or more executable chains such that each of the entries further includes a parameter used to select one of the two or more executable chains.

17. (Once Amended) The method as recited in claim 12, wherein updating the branch table further includes replacing a dummy address associated with the reference to the second one of the one or more code modules with [an entry point] the address of the second one of the one or more code modules.

18. The method as recited in claim 1, further comprising associating one of the one or more code modules with a hardware interface to identify a starting point for execution upon occurrence of an interrupt.

19. (Once Amended) A method of configuring a hardware device, the hardware device including a hardware interface, comprising
determining a configuration of the hardware interface, the configuration corresponding to one or more software modules to be executed to complete the configuration;
comparing the configuration against a set of rules that specify a hierarchical order in which the one or more software modules are to be executed in relation to one another;
identifying the one or more software modules that are to be executed;
ascertaining the hierarchical order in which the one or more software modules are to be executed;
loading the one or more software modules that are to be executed; and
building a chain connecting the one or more software modules such that the one or more software modules will automatically execute in the hierarchical order when a first one of the one or more software modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain such that an address in memory at which the next

one of the code modules in the chain is loaded is identified, the one or more software modules being one or more DLLs.

20. The method as recited in claim 19, further comprising associating one of the one or more software modules with the hardware interface to identify a starting point for execution upon occurrence of an interrupt.

21. The method as recited in claim 19, wherein the hardware device is a router.

22. (Once Amended) A computer-readable medium for linking a set of code modules for execution, the computer-readable medium storing computer-readable code, comprising:
instructions for determining one or more code modules to be executed, the one or more code modules being one or more DLLs;

instructions for ascertaining a hierarchical order in which the one or more code modules are to be executed;

instructions for loading the one or more code modules to be executed; and

instructions for building a chain connecting the one or more code modules such that the one or more code modules will automatically execute in the hierarchical order when a first one of the one or more code modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain, wherein an address in memory at which the next one of the code modules in the chain is loaded is associated with the reference to the next one of the code modules in the chain.

23. The computer-readable medium as recited in claim 22, wherein the instructions for loading are to be executed simultaneous with the instructions for building the chain.

24. The computer-readable medium as recited in claim 22, wherein the instructions for building a chain enables the one or more code modules to be modified without requiring recompilation of the one or more code modules.

25. (Once Amended) A system for linking a set of code modules for execution,

comprising:

a processor; and

a memory, the memory storing therein:

instructions for determining one or more code modules to be executed, the one or more code modules being one or more DLLs;

instructions for ascertaining a hierarchical order in which the one or more code modules are to be executed;

instructions for loading the one or more code modules to be executed; and

instructions for building a chain connecting the one or more code modules such that the one or more code modules will automatically execute in the hierarchical order when a first one of the one or more code modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain, wherein an address in memory at which the next one of the code modules in the chain is loaded is associated with the reference to the next one of the code modules in the chain.

REPLACEMENT SHEETS

1. (Once Amended) A method of linking a set of code modules for execution, comprising:
 - determining one or more code modules to be executed, wherein the one or more code modules are one or more DLLs;
 - ascertaining a hierarchical order in which the one or more code modules are to be executed;
 - loading the one or more code modules to be executed; and
 - building a chain connecting the one or more code modules such that the one or more code modules will automatically execute in the hierarchical order when a first one of the one or more code modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain, wherein an address in memory at which the next one of the code modules in the chain is loaded is associated with the reference to the next one of the code modules in the chain.
2. The method as recited in claim 1, wherein building a chain enables the one or more code modules to execute without requiring a parent code module responsible for calling the one or more code modules.
3. The method as recited in claim 1, wherein the loading step is performed simultaneous with the building step.
4. The method as recited in claim 1, wherein building a chain is performed such that the one or more code modules can be modified without requiring recompilation of the one or more code modules.
5. The method as recited in claim 1, wherein loading the one or more code modules is performed in a reverse order of the hierarchical order.
6. (Once Amended) The method as recited in claim 1, wherein determining one or

more code modules to be executed comprises determining one or more code modules to be executed to complete configuration of a hardware interface of a router.

7. (Once Amended) The method as recited in claim 1, wherein determining one or more code modules to be executed comprises determining one or more code modules to be executed to configure a router.

10. (Once Amended) The method as recited in claim 1, wherein building a chain connecting the one or more code modules comprises:

obtaining a first one of the one or more code modules, wherein the first one of the one or more code modules has previously been loaded;

determining whether the first one of the one or more code modules is to subsequently execute a second one of the one or more code modules upon completion of execution of the first one of the one or more code modules, wherein the second one of the one or more code modules has previously been loaded;

when it is determined that the first one of the one or more code modules is to subsequently execute a second one of the one or more code modules, updating a branch table of the first one of the one or more code modules to identify an address at which the second one of the one or more code modules is loaded such that the reference to the second one of the one or more code modules in the branch table of the first one of the one or more code modules is associated with the address at which the second one of the one or more code modules is loaded.

11. (Once Amended) The method as recited in claim 1, wherein building a chain connecting the one or more code modules comprises:

obtaining a first one of the one or more code modules;

determining whether the first one of the one or more code modules has an option of executing a second one of the one or more code modules upon completion of execution of the first one of the one or more code modules;

when it is determined that the first one of the one or more code modules has an option

of executing a second one of the one or more code modules, updating a branch table in the first one of the one or more code modules to identify an address at which second one of the one or more code modules is loaded such that the address of the second one of the one or more code modules is associated with the reference to the second one of the one or more code modules.

12. (Once Amended) The method as recited in claim 1, wherein building a chain connecting the one or more code modules comprises:

obtaining a first one of the one or more code modules;

determining whether the first one of the one or more code modules can subsequently execute a second one of the one or more code modules upon completion of execution of the first one of the one or more code modules;

when it is determined that the first one of the one or more code modules can subsequently execute a second one of the one or more code modules, updating a branch table in the first one of the one or more code modules to identify an address at which the second one of the one or more code modules has been loaded such that the address of the second one of the one or more code modules is associated with the reference to the second one of the one or more code modules.

13. (Once Amended) The method as recited in claim 12, wherein the branch table of the first one of the one or more code modules includes the reference to the second one of the one or more code modules prior to loading the code modules and includes the address of the second one of the one or more code modules after the code modules have been loaded.

14. (Once Amended) The method as recited in claim 12, wherein updating a branch table includes modifying an entry in the branch table such that a dummy address is replaced with the address of the second one of the one or more code modules.

15. (Once Amended) The method as recited in claim 12, wherein when the first one of the one or more code modules is shared by two or more executable chains of code modules, associating the second one of the one or more code modules with one of the two or more executable chains such that the branch table of the first one of the one or more code modules includes at least two entries, each of the entries identifying one of the two or more

executable chains, each of the entries including an address.

16. (Once Amended) The method as recited in claim 15, wherein the second one of the one or more code modules is associated with one of the two or more executable chains when a parameter is associated with one of the two or more executable chains such that each of the entries further includes a parameter used to select one of the two or more executable chains.

17. (Once Amended) The method as recited in claim 12, wherein updating the branch table further includes replacing a dummy address associated with the reference to the second one of the one or more code modules with the address of the second one of the one or more code modules.

18. The method as recited in claim 1, further comprising associating one of the one or more code modules with a hardware interface to identify a starting point for execution upon occurrence of an interrupt.

19. (Once Amended) A method of configuring a hardware device, the hardware device including a hardware interface, comprising

determining a configuration of the hardware interface, the configuration corresponding to one or more software modules to be executed to complete the configuration; comparing the configuration against a set of rules that specify a hierarchical order in which the one or more software modules are to be executed in relation to one another; identifying the one or more software modules that are to be executed; ascertaining the hierarchical order in which the one or more software modules are to be executed;

loading the one or more software modules that are to be executed; and

building a chain connecting the one or more software modules such that the one or more software modules will automatically execute in the hierarchical order when a first one of the one or more software modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain such that an address in memory at which the next

one of the code modules in the chain is loaded is identified, the one or more software modules being one or more DLLs.

20. The method as recited in claim 19, further comprising associating one of the one or more software modules with the hardware interface to identify a starting point for execution upon occurrence of an interrupt.

21. The method as recited in claim 19, wherein the hardware device is a router.

22. (Once Amended) A computer-readable medium for linking a set of code modules for execution, the computer-readable medium storing computer-readable code, comprising:
instructions for determining one or more code modules to be executed, the one or more code modules being one or more DLLs;

instructions for ascertaining a hierarchical order in which the one or more code modules are to be executed;

instructions for loading the one or more code modules to be executed; and

instructions for building a chain connecting the one or more code modules such that the one or more code modules will automatically execute in the hierarchical order when a first one of the one or more code modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain, wherein an address in memory at which the next one of the code modules in the chain is loaded is associated with the reference to the next one of the code modules in the chain.

23. The computer-readable medium as recited in claim 22, wherein the instructions for loading are to be executed simultaneous with the instructions for building the chain.

24. The computer-readable medium as recited in claim 22, wherein the instructions for building a chain enables the one or more code modules to be modified without requiring recompilation of the one or more code modules.

25. (Once Amended) A system for linking a set of code modules for execution,

comprising:

a processor; and

a memory, the memory storing therein:

instructions for determining one or more code modules to be executed, the one or more code modules being one or more DLLs;

instructions for ascertaining a hierarchical order in which the one or more code modules are to be executed;

instructions for loading the one or more code modules to be executed; and

instructions for building a chain connecting the one or more code modules such that the one or more code modules will automatically execute in the hierarchical order when a first one of the one or more code modules is executed, wherein each of the code modules responsible for calling a next one of the code modules in the chain includes a reference to the next one of the code modules in the chain, wherein an address in memory at which the next one of the code modules in the chain is loaded is associated with the reference to the next one of the code modules in the chain.